

# User guide

Fast, powerful control of Codling Moth,  
Leaf Roller Caterpillar and Bronze  
Beetle in Pipfruit.



## Break the cycle - FAST!

*High quality fruit production requires the best possible protection against damaging pests.*

*Vayego<sup>®</sup> 200 SC insecticide is a new multi-faceted tool for growers to control codling moth, leaf roller caterpillar and bronze beetle in their pest management programs.*

*With systemic movement within the leaf, Vayego provides outstanding length of activity, rapid antifeedant properties, and has proven activity on all life stages from egg to adult.*

\*Based on trials, control of codling moth was not significantly compromised after 20 mm of rain falling in one hour after recommended drying time of 2 hours in good drying conditions. For more information contact your merchant representative or Bayer Territory Manager.

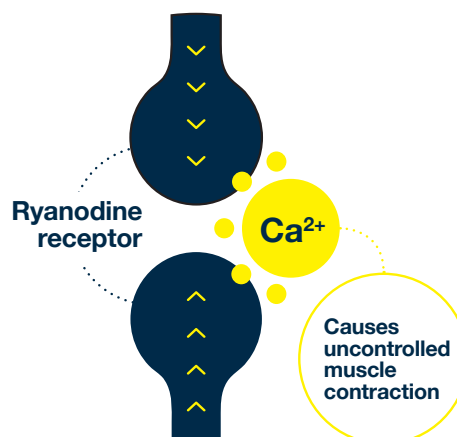
## Benefits of Vayego

- Proven and long-lasting protection against codling moth, leaf roller and bronze beetle including:
  - Preventative and curative ovicidal protection against codling moth.
  - Larvacidal protection against codling moth and leaf roller.
  - Adulticidal protection against codling moth and bronze beetle adults.  
*Allows control of important quarantine pests at all life stages by "Breaking the cycle".*
- Rapid feeding cessation – larvae stop feeding immediately and do not recover.  
*Minimises damage to high value fruit.*
- Systemic activity – Vayego has both systemic and translaminar activity.  
*Get maximum coverage for stronger control.*
- Highly rainfast – Vayego is able to withstand heavy rain showers.  
*Have peace of mind that your pest control won't be compromised.\**
- Backed by years of global investment in research and development and the experience of Bayer's in-field team.  
*Back up and support, when and where you need it.*

## Mode of action

IRAC GROUP 28 DIAMIDE INSECTICIDE:

*Vayego acts by ingestion primarily, but also has good contact activity. It targets the ryanodine receptors, keeping them open, which allows calcium ( $Ca^{2+}$ ) to be released in an uncontrolled way. The result is an immediate cessation of feeding, followed by paralysis. Larvae do not recover.*



## GLOBAL DEVELOPMENT

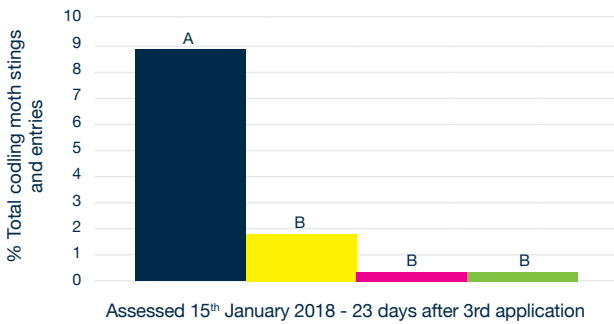
During its global development, more than 4,000 field studies were conducted by experienced agronomists with an understanding of agronomic practices and issues. Globally, Vayego has been shown to be highly efficacious and crop safe when used according to label recommendations.

## NEW ZEALAND PERFORMANCE

Similarly, trial work in New Zealand has demonstrated the outstanding efficacy of Vayego in controlling codling moth, leaf roller and bronze beetle in pipfruit. New Zealand trial work on fruit finish and crop safety, as well as global work on safety to beneficial species have all shown Vayego to be safe to use on valuable pipfruit crops. To view more results, visit [crops.cscience.bayer.co.nz](http://crops.cscience.bayer.co.nz).

### VAYEGO - CODLING MOTH Apple Trial 2017/18

Nelson – Royal Gala. Trial No: ID18NZL020FFSI



#### Application timings

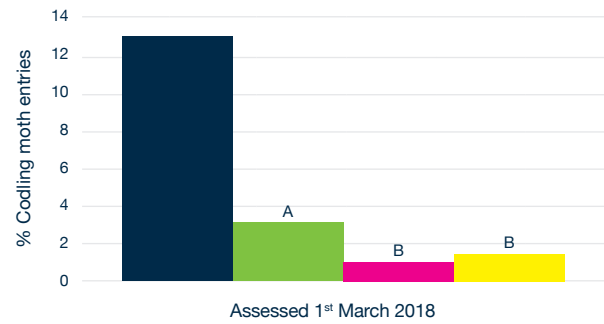
A - 12<sup>th</sup> Nov - Biofix + 97GDD  
 B - 1<sup>st</sup> Dec - A + 19 days  
 C - 23<sup>rd</sup> Dec - B + 22 days

- Untreated
- Prodigy® 37.5 mL/100 L ABC
- Vayego 15 mL/100 L ABC
- Altacor® 9 g/100 L ABC

Trial performed using 3 applications to measure the standalone efficacy of products. Using any of the products mentioned in this way is not recommended. Do not apply more than 2 applications of Vayego per season.

### VAYEGO - CODLING MOTH Apple Trial 2017/18

Hawke's Bay Research Station – Royal Gala. Trial No: ID18NZL020SN10



#### Application timings

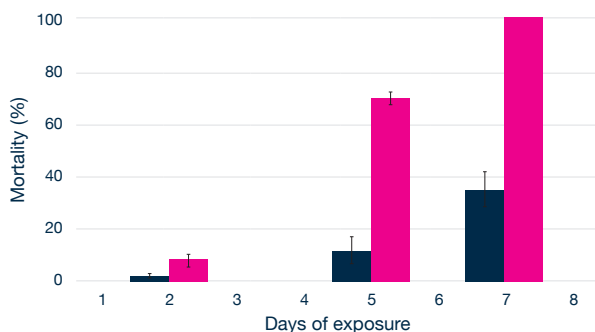
A - 31<sup>st</sup> Oct - Biofix + 90GDD  
 B - 21<sup>st</sup> Nov - A + 21 days  
 C - 12<sup>th</sup> Dec - B + 21 days  
 D - 3<sup>rd</sup> Jan - C + 22 days

- Untreated
- Prodigy 37.5 mL/100 L ABC
- Vayego 15 mL/100 L ABC
- Altacor 9 g/100 L ABC

Trial performed using 4 applications to measure the standalone efficacy of products. Using any of the products mentioned in this way is not recommended. Do not apply more than 2 applications of Vayego per season.

### VAYEGO - BRONZE BEETLE BIOASSAY

Plant & Food Research. Trial No: ID18NZL022PFR1

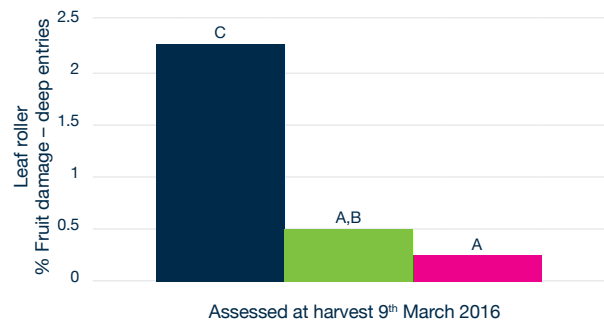


- Control
- Treated with Vayego

The mean percentage mortality of field-collected bronze beetles in the untreated control and after exposure to fresh residues of Vayego in a laboratory bioassay. Vayego was applied at 15 mL/100 L to apple leaves at the Plant & Food Research orchard in Hawke's Bay. NB: Error bars relate to SEM.

### VAYEGO - LEAF ROLLER Apple Trial 2017/18

Nelson – Royal Gala. Trial No: ID17NZL016SNFF



#### Application timings

A - 28<sup>th</sup> Oct - Biofix + 90GDD  
 B - 16<sup>th</sup> Nov - 19 days after A  
 C - 7<sup>th</sup> Dec - 21 days after B  
 D - 29<sup>th</sup> Dec - 22 days after C

- Untreated
- Prodigy ABCD 37.5 mL/100 L
- Vayego ABCD 15 mL/100 L

Trial performed using 4 applications to measure the standalone efficacy of products. Using any of the products mentioned in this way is not recommended. Do not apply more than 2 applications of Vayego per season.



## ENVIRONMENTAL EFFECTS

Based on 160 experimental studies, Vayego can be applied with minimal disruption to the environment and beneficial insects when used according to label directions. Do not apply within 25 meters of any water body.

## BEE-SAFE POSITIONING

Vayego must be applied to crops post petal fall. Do not apply Vayego to any crop where flowers are present. Ensure flowering weeds are not present in treated areas before using Vayego. Spray applications made after petal fall to crops where there are no flowering weeds present pose minimal risk to bee safety.

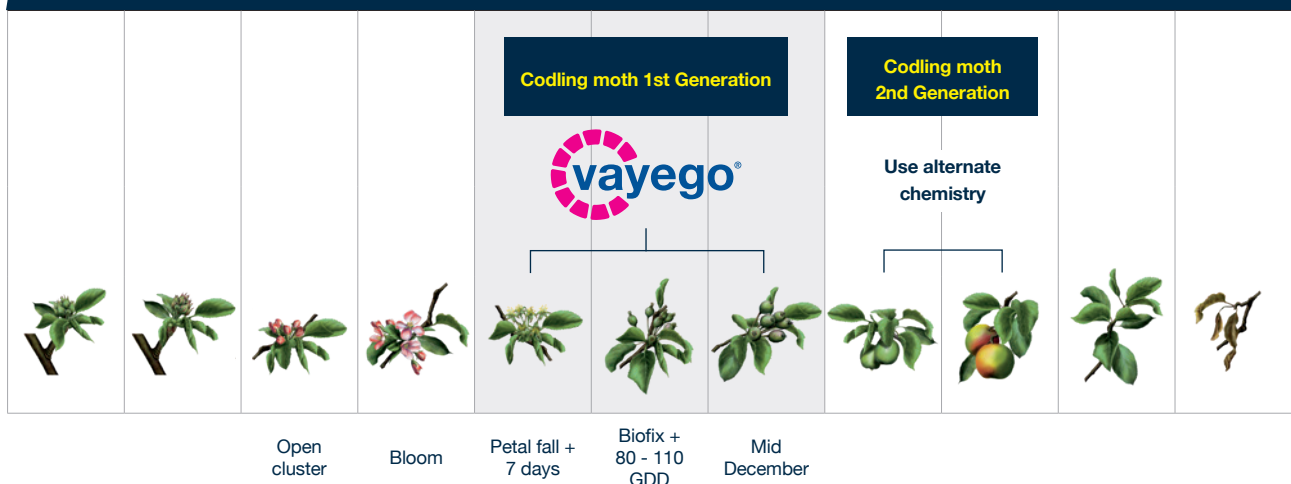
## VAYEGO - IPM

Vayego is suitable for integration into IPM strategies and has demonstrated a high level of safety to a wide range of important groups of biological control species, including the predatory mites species *Typhlodromus pyri* as well as *Aphelinus mali*.

Work performed by Plant & Food Research in New Zealand also showed no harmful effects to *Aphelinus mali*.



## VAYEGO RECOMMENDED USE TIMINGS





## USAGE RECOMMENDATIONS

<b>Usage Rate</b>	15 mL/100 L of water as a dilute application. For concentrate spraying, adjust the rate accordingly.
<b>Spray Timings/Number of Applications</b>	Make the first application post petal fall to coincide with relevant Biofix recommendations. A second application may be made as required, with a minimum of a 21 day interval for nil detectable residue programmes. The second application should only be made if pest thresholds are exceeded.  Do not apply more than two applications per season (See Resistance Management also).
<b>Water Rate</b>	Vayego can be applied at high volume dilute (2000 L/ha) or low volume concentrate water rates (1000 L/ha to 500 L/ha). For low volume concentrate rates, adjust the Vayego rate /100 L of water accordingly. For example, if using 666 L/ha (3 x conc) then use Vayego at 45 mL/100 L.
<b>Resistance Management</b>	Do not apply more than two applications of Vayego per season. Applications to control codling moth and leaf roller must be applied to the first generation only.
<b>Compatibility</b>	The following products have been tested as tank and crop safe to mix with Vayego: <ul style="list-style-type: none"> <li>• Vayego + Movento® 100SC + Delan® + Stopit™ + Megafol® + Talendo®</li> <li>• Vayego + Flint® + Captan + Mizar® Granuflo + Stopit™</li> <li>• Vayego + Polyram® + Secardis® + Score® + Regalis®</li> </ul>
<b>Adjuvants</b>	If even spray coverage is able to be achieved, the addition of an adjuvant is not required.
<b>Water pH</b>	Vayego is stable between pH 5 – 7.5. Above pH 7.5 use an appropriate pH buffer.
<b>Rainfastness</b>	Two hours in good drying conditions.
<b>Re-entry Intervals</b>	Do not enter treated area for at least 12 hours after the application.
<b>Withholding Period</b>	56 days for nil detectable residue. Consult your exporter for withholding periods in export markets.

## REGIONAL TERRITORY MANAGERS

Upper North Island	Phil Bertram	021 426 825
Gisborne and Hawke's Bay	Marc Fox Customer Marketing Manager	021 426 823
Lower North Island / Nelson / Marlborough	Susie Dalgety	021 426 824
North and Mid Canterbury	David Parker	021 760 794
Mid and South Canterbury	David Weith	021 426 096
Otago and Southland	Daniel Suddaby	021 426 822

*We're with you in the field*  
[cropscience.bayer.co.nz](http://cropscience.bayer.co.nz)

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